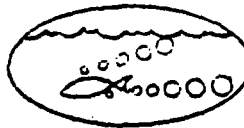




**POLLUTION  
CURBS, INC.**



502 NORTH PRIOR AVENUE • ST. PAUL, MINNESOTA 55104

Phone 612-847-0151

US EPA RECORDS CENTER REGION 5



514853

Proposal Number 139-R 1

September 24, 1970

**PROPOSED SCRUBBER SYSTEM  
AND  
ODOR INTENSITY EVALUATION**

Submitted to:

**REILLY TAR AND CHEMICAL CORPORATION**

**7200 Walker Avenue**

**St. Louis Park, Minnesota 55416**

Submitted by:

**POLLUTION CURBS, INC.**

**502 North Prior Avenue**

**St. Paul, Minnesota 55104**

**301802**

## 1.0 SCOPE

Pollution Curbs, Inc. (PCI) proposes to perform the following services on behalf of Reilly Tar and Chemical Corporation, 7200 Walker Avenue, St. Louis Park, Minnesota.

The proposed work will include determination and evaluation of operating conditions of the proto-type scrubbing system and its components, odor intensity evaluations, and determinations of sulfur dioxide concentration.

1.1 Location The proto-type scrubber system located at the Reilly Tar and Chemical Corporation plant located at 7200 Walker Avenue, St. Louis Park, Minnesota

## 2.0 STATEMENT OF WORK TO BE PERFORMED

This proposed work is designed to provide basic engineering design data on, and evaluation of, the proto-type scrubbing system. This data will be necessary in order to provide to the Minnesota Pollution Control Agency information as described in APC 3 of the Minnesota Air Pollution Control Regulations requisite to an installation permit.

Odor evaluations will be conducted on the inlet and outlet side of control system to determine present effectiveness, and to provide base line data.

Services to be performed by PCI are in accordance with the following description:

### 2.1 On-Site Work

a) Measurements will be made and data collected from the

proto-type scrubber system to determine the following parameters:

1. Volumetric gas flow rate of system in SCFM,
  2. Static Pressures, in inches of water,
  3. Duct and pipe sizes,
  4. Fan size and type,
  5. Percent moisture content of emission gas,
  6. Water pressure in psi and flow rate in gpm.
- b) Samples of inlet and emissions gas will be taken for odor intensity evaluation.
- c) Gas samples will be taken to determine the sulfur dioxide concentration at the inlet and at outlet of system.

## 2.2 Analysis

- a) Samples of inlet and emission gas collected will be evaluated for odor intensity by an independent panel of not less than five (5) persons. Evaluations will be conducted in accordance with procedure described in The American Society of Testing Materials Method D-1391-57 and reported in standard odor units on a "before and after" treatment basis.
- b) Determination will be made of the  $SO_2$  concentration in parts per million of gas on both inlet and outlet.

## 2.3 Report

A written report will be submitted in duplicate covering all test results, recommendations and conclusions.

### 3.0 RESPONSIBILITIES

- 3.1 PCI will provide all labor and materials including test apparatus and instrumentation to obtain necessary data and information.
- 3.2 Reilly Tar and Chemical Corporation will provide access to system, sampling ports, scaffolding, utilities such as electrical and water service, and system or process operation and operation information consistent with typical operation during period of on-site testing.

### 4.0 SCHEDULE

- 4.1 Preparation PCI requests that ten (10) days notice be given prior to the actual time of sampling and on-site work.
- 4.2 On-Site Work On site work will be conducted at any mutually convenient time, and will require two (2) working days.
- 4.3 Laboratory and Analysis Odor evaluations and laboratory work will require one week from completion of on-site work.
- 4.4 Final Report A report will be delivered to Reilly Tar and Chemical Corporation within three (3) weeks after completion of on-site work.

### 5.0 CONTINGENT CONDITIONS

- 5.1 Aborted Test In the event that operating conditions, beyond the control of PCI, are such to cause sampling or test data to be incomplete or inadequate for evaluation, the test

already commenced will be terminated. If such a situation arises and if the malfunction or operating condition cannot be corrected, or if insufficient time remains during a normal work-day to start and complete a second test, the complete new test will be rescheduled. Applicable additional costs (if any) to replace the aborted tests will be as noted under Section 6.0.

- 5.2 Schedules Time indicated is subject to review when authorization to proceed is given due to possible prior commitments. On-site test scheduling is subject to system operating conditions and, if outdoors, subject to weather conditions.
- 5.3 Scope Any changes, modifications or amendments to the initial scope will be mutually agreed to in writing, otherwise not considered to be binding. Cancellation of the foregoing or any portion thereof will be subject to cancellation charges.
- 5.4 Errors. All stenographical and clerical errors subject to correction.
- 5.5 Confidential Information All reports are submitted as the confidential property of the client and no disclosures from them in whole or in part will be made without the consent or approval of Reilly Tar and Chemical Corporation.

## 6.0 PRICE

- a) For work described in Section 2.0  
Nine Hundred and Eighty Dollars (\$980.00)

301806

b) For contingency as described in Section 5.1

1. Charges from aborted test commencement time to the end of a normal working day will be at the rate of \$40.00 per hour.

c) Appearance for expert testimony.

If expert testimony is required before any judicial, executive, or legislative bodies, charges for such appearance will be \$250.00 per day or portion thereof, plus travel expense outside of the Twin City metropolitan area invoiced at cost.

7.0 TERMS OF PAYMENT

Net 30 days

8.0 ACCEPTANCE

A purchase order or properly executed copy of this proposal shall be considered as authorization to proceed and constitute acceptance of the terms and conditions contained herein.

Respectfully Submitted,

POLLUTION CURBS, INC.

By Robert E. Lyman

Title Project Manager

Date September 24, 1970

Acceptance

Firm \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

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